



Installing PowerBook G4 Aluminum 17" 1.67 GHz (High-Res) Sound Card

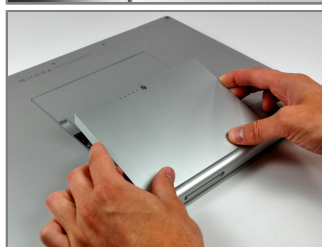
Tools used in this guide

- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [T8 Torx Screwdriver](#) (1)

Parts relevant to this guide

- [G4 Aluminum 17" 1.67 GHz \(HR\) Sound Card](#) (1)

Replace your sound card to regain audio functionality.



Step 1 - Battery

- Use your thumbs to push the two battery retaining tabs away from the battery.
- The battery should pop up enough to rotate it toward yourself and lift it out of the lower case.



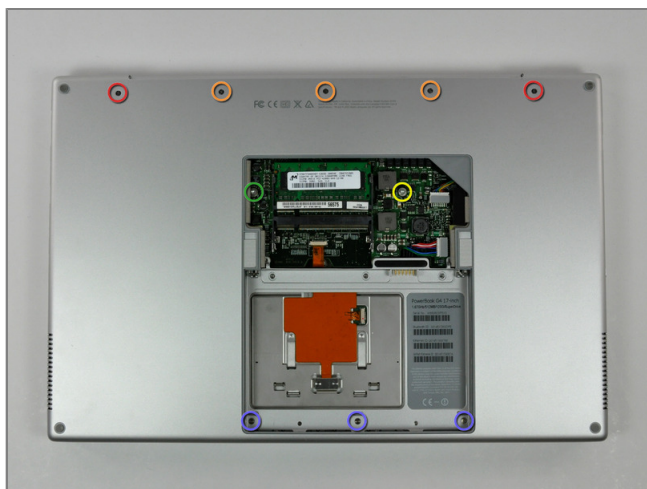
Step 2 - Memory Door

- Remove the three 2.3 mm Phillips screws securing the memory cover to the lower case.



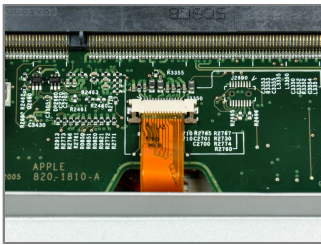
Step 3

- Lift the memory cover slightly and pull it toward yourself to remove it from the lower case.

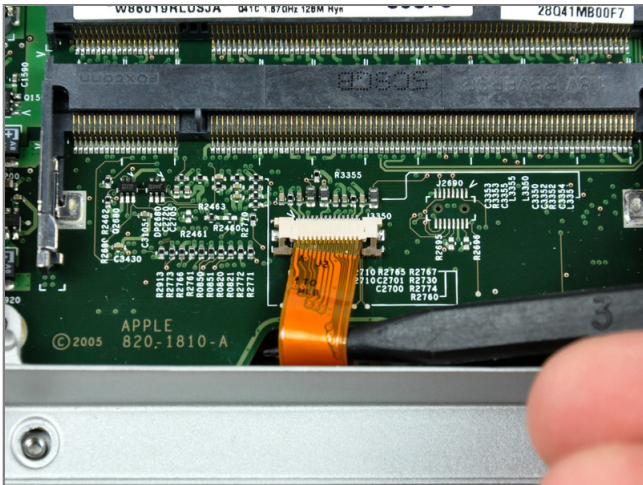


Step 4 - Upper Case

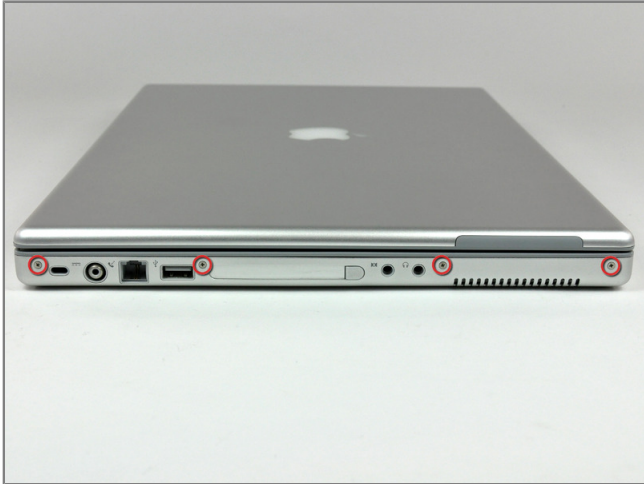
- Remove the following ten screws:
 - Two 14.7 mm shouldered Phillips.
 - Three 12.3 mm Phillips.
 - One 3.8 mm T8 Torx.
 - One 6.8 mm T8 Torx.
 - Three 1.3 mm Phillips.



- The ZIF cable is located underneath the bottom RAM slot. If your PowerBook has both RAM slots occupied, make sure to [remove](#) the RAM chip.
- Use your fingernails to separate the ZIF cable lock away from its socket.
- The ZIF cable lock will move about a millimeter away from the socket before it stops (see picture 2). **Do not** try to remove the ZIF cable lock.



- Use the tip of a spudger to slide the trackpad ribbon cable out of its socket.



Step 7

- Remove the four 3.4 mm Phillips screws from the PC card side of the PowerBook.
- When replacing these screws, you must reinstall each screw in the correct order. Begin by installing the screw closest to the display hinge, and go out from there.



Step 8

- Remove the four 3.4 mm Phillips screws from the DVI connector side of the PowerBook.
- When replacing these screws, you must reinstall each screw in the correct order. Begin by installing the screw closest to the display hinge, and go out from there.
- During reassembly, make sure to reinstall the two screws on the right into their appropriate locations, and not the DVI port anchor holes.





Step 9

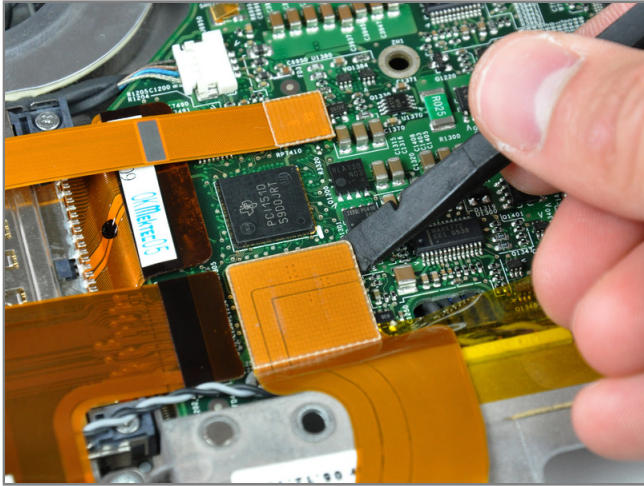
- Depress the display latch release button and open your display.



Step 10

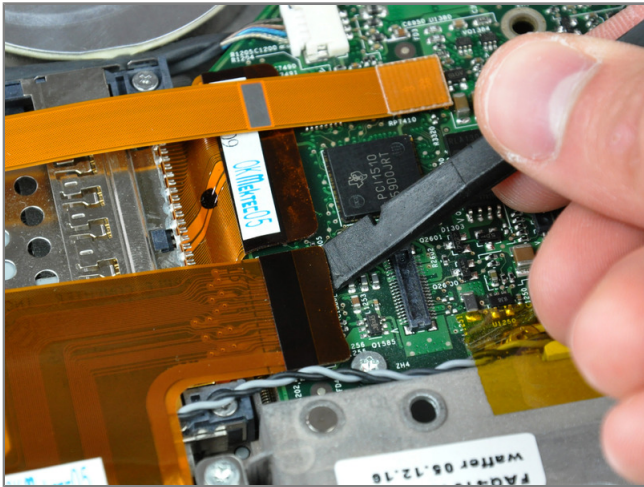
- Starting near the display, lift the upper case straight up off the lower case, minding any cables that may get caught.





Step 11 - Hard Drive

- Use the flat end of a spudger to pry the sound card ribbon cable connector up off the logic board.
- Move the sound card ribbon cable away from the face of the hard drive.
- It is not necessary to disconnect the sound card ribbon cable from the sound card.



Step 12

- Use the flat end of a spudger to pry the hard drive ribbon cable connector up off the logic board.



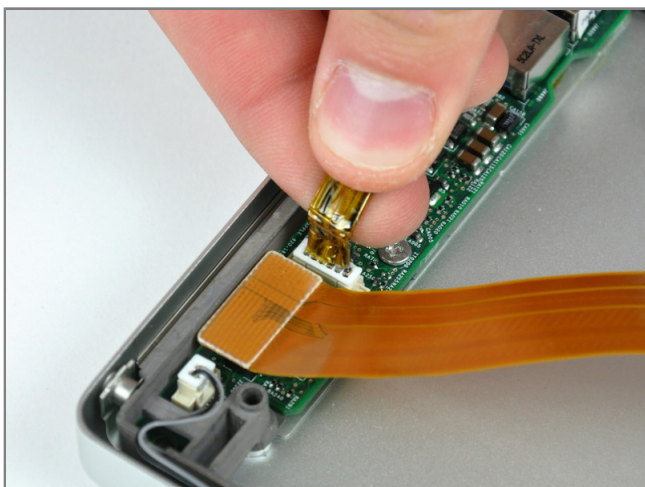
Step 13

- Remove the following four screws:
 - Three 11.1 mm T8 Torx.
 - One 3.9 mm T8 Torx.
- Lift the hard drive out of the lower case.



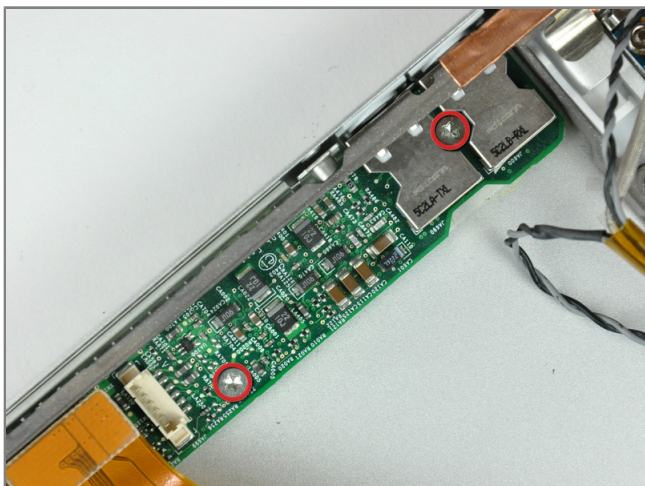
Step 14 - Sound Card

- If necessary, remove the strip of tape covering the speaker cable.



Step 15

- Pull the speaker cable connector straight up to disconnect it from the sound card.



Step 16

- Remove the two T8 Torx screws securing the sound card to the lower case.



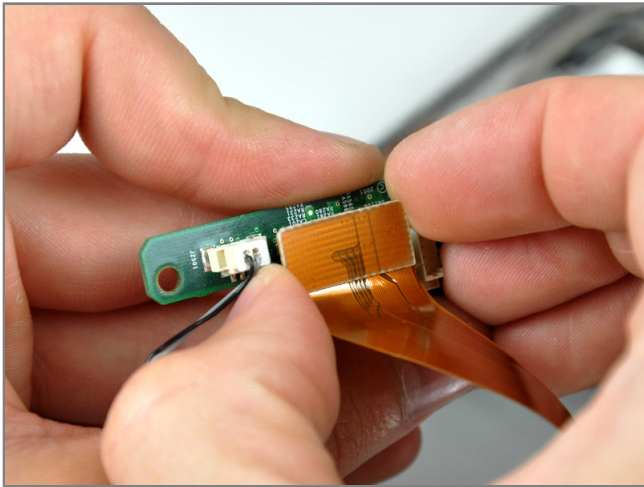
Step 17

- Use the flat end of a spudger to pry the USB sockets away from the left edge of the lower case.



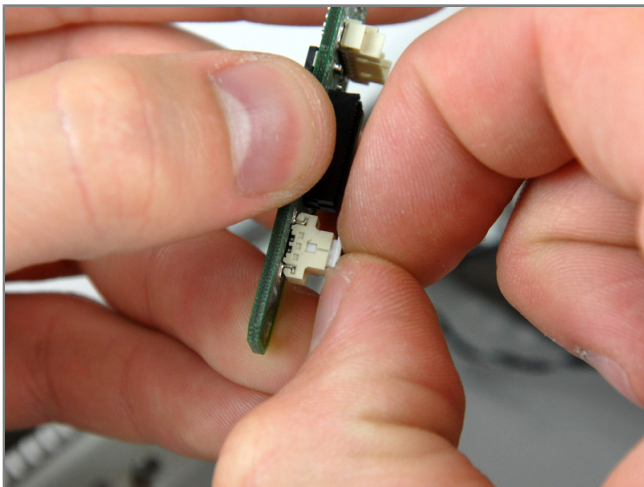
Step 18

- Lift the sound card slightly out of the lower case, minding the fragile lower portion holding the microphone connector.
- The sound card is still attached to the PowerBook by the microphone cable.



Step 19

- Pull the sound card ribbon cable straight away from its socket on the sound card.



Step 20

- Use your fingernails to pull the microphone connector straight away from its socket on the sound card.

To reassemble your device, follow these instructions in reverse order.

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